



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## PO038518

**Supplier:** MOA001-VU  
Monroe Aerospace  
399 East Drive  
Melbourne, FL 32904 USA  
Phone: 1-321-727-0047  
Fax: 1-321-727-7331

**PO No:** PO038518

**PO Date:** 11/29/17

**Due Date:** 12/1/17

**Purchase Order  
Revision:**

**Revision Date:**

**Ship-To Contact:** Baker, Diane  
Phone: dbaker@dartaero.com

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

E-MAILED  
NOV 30 2017

Revised

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	MS21042L08	-	Nut		Firmed	12/1/17	50 Ea	0 Ea	50 Ea	\$0.15/Ea	\$7.50
2	MS24694-S54	-	Screw		Firmed	12/1/17	100 Ea	0 Ea	100 Ea	\$0.08/Ea	\$8.00
3	MS21250-06018	-	Bolt		Firmed	12/1/17	10 Ea	0 Ea	10 Ea	\$3.25/Ea	\$32.50
4	MS20426AD3-3	-	Rivet qty in lbs - 6200		Firmed	12/1/17	6,200 Ea	0 Ea	6,200 Ea	\$0.0058064/Ea	\$36.00
5	MS20470AD4-5	-	Rivet, Universal Head qty in lbs - 2268		Firmed	12/1/17	2,268 Ea	0 Ea	2,268 Ea	\$0.0078924/Ea	\$17.90
Grand Total:											\$101.90

### Order Notes

Procurement Quality Clauses  
A005 RIGHT OF ENTRY  
A016 PERSONNEL QUALIFICATION  
A026 CERTIFICATION OF MATERIAL CONFORMANCE  
A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT  
A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS  
A040 NOTIFICATION OF QUALITY ESCAPE  
A041 QUALITY MANAGEMENT SYSTEM  
A042 DART NOTIFICATION BY SUPPLIER  
A043 RETENTION OF QUALITY DOCUMENTS  
  
A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM  
  
A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 11/30/17 8:34 AM dart.baker.diane

**PACKING SLIP**

INVOICE #: 620677  
DATE PRINTED: 11/30/2017  
TIME: 4:25:49 PM  
# OF ITEMS: 5  
PAGE: 1

**TO:** DART AEROSPACE LTD.  
ACCTS. PAYABLE  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
CANADA

ATTN: DIANE BARKER  
Ph: 613.632.3336

**SHIP TO:** DART AEROSPACE LTD.  
ATTN: RECEIVING  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
CANADA

INVOICE DATE: 11/30/2017      TERMS: NET 30      WEIGHT: 3.6      SHIP VIA: UPS GROUND  
ORDER DATE: 11/30/2017      CUST PO: PO038518      # OF BOXES: 1  
SHIP DATE: 11/30/2017      FOB: MELBOURNE, FL      SHIPMENT #: 0  
SALES ORDER #: 549291  
CUSTOMER #: 16754      AWB: 1Z3165E06862801959      YOUR MONROE ACCOUNT REP: Luis Sepulveda

ITEM	PART NUMBER/DESCRIPTION	SHIPPED	B/O	CD	UNIT PRICE	UOM
1	MS21042L08 SELF LOCKING NUT MFR: AFC LOT: 24351 Control #: 137979-1	50.00	0.00	NE		
2	MS24694S54 FLAT HEAD SCREW MFR: AFC LOT: 26254 Control #: 150620-1	56.00	44.00	NE		
3	MS21250-06018 BOLT MFR: HEARTLAND LOT: 41771 Control #: 122187-1	10.00	0.00	NE		
4	MS20426AD3-3 SOLID RIVET MFR: NAT'L RIVET LOT: R-731-752-A REV: 3 Control #: 156476-1	1.00	0.00	NE		
5	MS20470AD4-5 SOLID RIVET MFR: ALLFAST LOT: S160804009L REV: 2 Control #: 158161-1	1.00	0.00	NE		

SPECIAL INSTRUCTIONS:

*We Thank You For Your Continued Business!*

**MONROE TAX ID: 47-3784072**

**ECAS, LLC dba MONROE AEROSPACE**

**399 EAST DRIVE MELBOURNE, FL 32904 PH: 800.330.3975 FAX: 321.727.7331**



MONROE TAX ID: 47-3784072

# Invoice

INVOICE #: 620677  
DATE PRINTED: 11/30/2017  
TIME: 4:25:27 PM  
# OF ITEMS: 6  
PAGE: 1

TO: DART AEROSPACE LTD.  
ACCTS. PAYABLE  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
CANADA

ATTN: DIANE BARKER  
Ph: 613.632.3336

SHIP TO: DART AEROSPACE LTD.  
ATTN: RECEIVING  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
CANADA

INVOICE DATE: 11/30/2017      TERMS: NET 30      WEIGHT: 3.6      SHIP VIA: UPS GROUND  
ORDER DATE: 11/30/2017      CUST PO: PO038518      # OF BOXES: 1  
SHIP DATE: 11/30/2017      FOB: MELBOURNE, FL      SHIPMENT #: 0  
SALES ORDER #: 549291  
CUSTOMER #: 16754      AWB: 1Z3165E06862801959      YOUR MONROE ACCOUNT REP: Luis Sepulveda

ITEM	PART NUMBER/DESCRIPTION	SHIPPED	B/O	CD	UNIT PRICE	UOM	TOTAL AMT
1	MS21042L08 SELF LOCKING NUT ECCN#: 9A991 SCHB#: 7318.16.0030 MFR: AFC      LOT:24351	50.00	0.00	NE	0.1500	EA	\$7.500
2	MS24694S54 FLAT HEAD SCREW ECCN#: 9A991 SCHB#: 7318.15.4000 MFR: AFC      LOT:26254	56.00	44.00	NE	0.0800	EA	\$4.480
3	MS21250-06018 BOLT ECCN#: 9A991 SCHB#: 7318.15.2000 MFR: HEARTLAND      LOT:41771	10.00	0.00	NE	3.2500	EA	\$32.500
4	MS20426AD3-3 SOLID RIVET ECCN#: 9A991 SCHB#: 7616.10.3000 MFR: NAT'L RIVET      LOT:R-731-752-A      REV: 3	1.00	0.00	NE	36.0000	LB	\$36.000
5	MS20470AD4-5 SOLID RIVET ECCN#: 9A991 SCHB#: 7616.10.3000 MFR: ALLFAST      LOT:S160804009L      REV: 2	1.00	0.00	NE	17.9000	LB	\$17.900
*** Order Not Complete ***							

## SPECIAL INSTRUCTIONS:

We Thank You For Your Continued Business!

SUB TOTAL:	\$98.380
TAX TOTAL:	\$0.000
MISC CHARGE:	\$0.000
FREIGHT:	\$25.480
TOTAL:	\$123.86
	USD

ECAS, LLC dba MONROE AEROSPACE  
399 EAST DRIVE MELBOURNE, FL 32904 PH: 800.330.3975 FAX: 321.727.7331



# CERTIFICATE OF CONFORMITY

NO: 620677

**BILL TO:**  
**DART AEROSPACE LTD.**  
**ACCTS. PAYABLE**  
**1270 ABERDEEN STREET**  
**HAWKESBURY, ON K6A 1K7**

**SHIP TO:**  
**DART AEROSPACE LTD.**  
**ATTN: RECEIVING**  
**1270 ABERDEEN STREET**  
**HAWKESBURY, ON K6A 1K7**

CUSTOMER PO	SHIP DATE	AIRWAY BILL/TRACKING #
PO038518	11/30/2017	1Z3165E06862801959

PART NO:	Description	CND	QTY	S/L		
MS21042L08	SELF LOCKING NUT	NE	50	61	LOT: 24351	MFR: AFC
MS24694S54	Customer Reference: FLAT HEAD SCREW	NE	56	45	LOT: 26254	MFR: AFC
MS21250-06018	Customer Reference: BOLT	NE	10	17	LOT: 41771	MFR: HEARTLAND
MS20426AD3-3	Customer Reference: SOLID RIVET	NE	1	52	LOT: R-731-752-A	MFR: NAT'L RIVET
REV: 3	Customer Reference:					
MS20470AD4-5	SOLID RIVET	NE	1	73	LOT: S160804009L	MFR: ALLFAST
REV: 2	Customer Reference:					

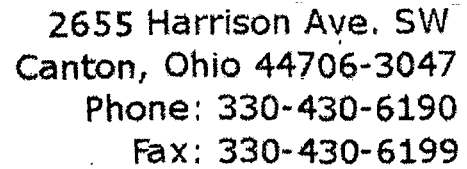
CONDITIONS: NE - New OH-OVERHAULED RP-REPAIRED SV-SERVICEABLE

We hereby certify that the items that are a part of this Purchase Order have been visually & dimensionally found to conform to all applicable standards, drawings & specifications. The liability of ECAS, LLC is limited to replacement of any item which is rejected because of a defect in material or workmanship if notified within 30 days & liability shall not exceed the invoice value. Such replacement shall constitute satisfaction of all liability.

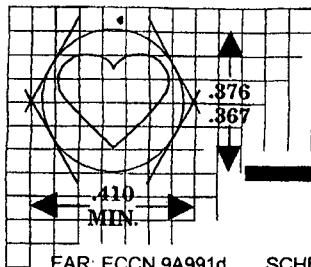
SIGNED:

For and on behalf of ECAS, LLC dba MONROE AEROSPACE

**ECAS, LLC dba MONROE AEROSPACE**  
**399 EAST DRIVE MELBOURNE, FL 32904 PH: 800.330.3975**

[illegible]





# HEARTLAND

## PRECISION FASTENERS INC

301 Prairie Village Dr.  
New Century, Kansas 66031

Toll Free (877) 4HP-BOLT  
(447-2658)

Tele (913) 829-4447  
Fax (913) 829-7282

EAR: ECCN 9A991d SCHEDULE B: 7318.15.2000

ECAS INC.  
399 EAST DRIVE  
MELBOURNE, FL 32904

QTY: 2,500

PO#: 62445 #1

CAGE CODE: 0ZC92

CERTIFICATE OF CONFORMANCE

HEARTLAND PRECISION FASTENERS, INC CERTIFIES THAT THE FASTENERS IN THIS SHIPMENT HAVE BEEN MANUFACTURED IN ACCORDANCE WITH HPFI'S QUALITY SYSTEM MANUAL, HPQM-001, REVISION H, APPLICABLE DRAWINGS, SPECIFICATIONS AND CONTRACT REQUIREMENTS. DIMENSIONAL, MECHANICAL, METALLURGICAL AND FINISH TESTS WERE PERFORMED AND CONFORM TO SAID SPECIFICATIONS. TRACEABILITY INFORMATION IS MAINTAINED AND ON FILE BY LOT NUMBER PER HPQP-018. WE CERTIFY THAT THIS LOT WAS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA SOURCE CONTAMINATION AND OZONE DEPLETING SUBSTANCES.

PAGE 1 OF 1

PART: MS21250-06018	REVISION: 1	LOT NO: 41771	CERT DATE: NOV 5 2012
DESCRIPTION: BOLT, TENSION, STEEL, EXTERNAL WRENCHING, FLANGED, 12 POINT	DFARS 252.225-7014 ALT I COMPLIANT	IN-PROCESS INIT. DATE: 6/8/12	
PROCUREMENT SPEC: NASM8831	REVISION: 3	HEADMARK: MS21250	
MATERIAL SPEC: AMS 6322	REVISION: N	GRADE: 8740	QUANTITY MANUFACTURED: 2,730
RAW MAT. CERT. SEE ATTACHED	HEAT: 10175090	SUPPLIER: WIRETECH	

### MECHANICAL TESTING

ULTIMATE TENSILE STRENGTH				DOUBLE SHEAR STRENGTH POUNDS		HARDNESS ROCKWELL C SCALE
POUNDS	FRACTURE	POUNDS	FRACTURE			
19,283	THREAD	18,984	THREAD	24,692	24,806	TEST SAMPLES: 10  TEST RANGE: 40-43
18,886	THREAD	18,915	THREAD	24,526	24,672	
19,162	THREAD	18,894	THREAD	24,652	24,715	
19,065	THREAD			24,652		
19,077	THREAD			24,626		
MIN:	17,100			MIN:	23,900	REQ'D: 39-43

FATIGUE: (SEE ATTACHED)

STRESS DURABILITY: (SAMPLE PCS: 5; LOAD APPLIED: 14,535 LBS; DISCONTINUED AFTER: 23 HOURS) PASS

### METALLURGICAL TESTING

MAG=100x	SAMPLE SIZE	DISCONTINUITIES	SURFACE CONTAMINATION:	GRAIN FLOW:	MICROSTRUCTURE:
NITAL	5	ACCEPTABLE	NONE	ACCEPTABLE	SATISFACTORY

### SPECIAL PROCESSES:

HEAT TREATMENT PER AMS 2759/1 REV E (SEE ATTACHED)

FINISH CADMIUM PLATE PER AMS-QQ-P-416(C) TYPE II, CLASS 2

THREADS .3750-24 UNJF-3A STANDARD PER AS8879(D)

NDT	MAGNETIC PARTICLE INSPECT PER ASTM E 1444-11	ACCEPT:	REJECT:
		100%	0

STAMP: AUTHORIZED QUALITY REPRESENTATIVE  
VERN MCHENRY

HPF 1801 REV. B DATED 4/21/10

THE ORIGINAL OF THIS CERTIFICATE HAS A RAISED SEAL & SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF HPFI LABORATORY.

ISO 9001: 2008 AND AS9100: 2009  
MADE IN THE UNITED STATES OF AMERICA

# ALLFAST®

## FASTENING SYSTEMS

P.O.Box 3166 - 15200 Don Julian Road  
City Of Industry, California 91745-1098  
Phone (626)968-9388 - Fax (626)968-9393  
www.allfastinc.com

### CERTIFICATE OF CONFORMANCE

DATE: 08/17/2016

CERTIFICATION NUMBER: 000210173

CUSTOMER NAME: RAPID RIVET

NOMENCLATURE: Solid Rivet

PURCHASE ORDER: 342695

QUANTITY: 283 LB

PART NUMBER: MS20470AD4-5

REV: 2

SHIPPER NUMBER: 107123204343

LOT CONTROL NUMBER: S160804009L

DATE OF MANUFACTURE: 07/21/2016

MATERIAL LOT NUMBER: S393316

HEAT LOT NUMBER: F00208103

MATERIAL VENDOR: KAISER ALUMINUM FAB. PROD. LLC

MATERIAL TYPE: 2117-T4

PROCUREMENT SPECIFICATION: NASM5674 REV. 2

SHEAR STRENGTH REQUIRED:	26,000 PSI MIN.		
SHEAR TEST RESULTS:	1: 33,315 PSI	2: 33,365 PSI	
	3: 34,014 PSI	4: 34,947 PSI	5: 34,168 PSI
	6: 33,432 PSI	7: 33,654 PSI	8: 35,286 PSI
	9: 34,269 PSI	10: 33,706 PSI	

#### DIMENSIONAL INSPECTION

SAMPLE SIZE: 12

RESULTS: ACCEPTABLE

ASTM GRAIN SIZE #: 8

DRIVEABILITY: ACCEPTABLE

FINISH: MIL-DTL-5541 REV. F, CLASS 1A, GOLD

COMMENTS: HEAT TREAT NASM5674 REV 2.

The undersigned hereby certifies that the product(s) supplied herewith were manufactured and inspected in accordance with all applicable drawings and specifications, and conforms to all applicable government and/or customer requirements. All supporting documentation is on file and is available for review upon request.

The aforementioned items were manufactured by Allfast Fastening Systems, Inc at 15200 Don Julian Road, City of Industry, California 91745.

This certification shall not be reproduced, except in full, without written approval of Allfast Fastening Systems, Inc. Recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under federal law.

Country of origin: USA



  
QUALITY ASSURANCE REPRESENTATIVE

Page 1 of 1

MANUFACTURERS OF AIRCRAFT AND COMMERCIAL FASTENERS